



# Protecting Our Future Water Supply

**Broward County**

**Broward County Municipal Mayors**

**South Florida Water Management District**

Joint Workshop Meeting - May 12, 2008

# Regional Water Supply Demands

Lower East Coast  
Planning Region

**2005**

912 million  
GPD

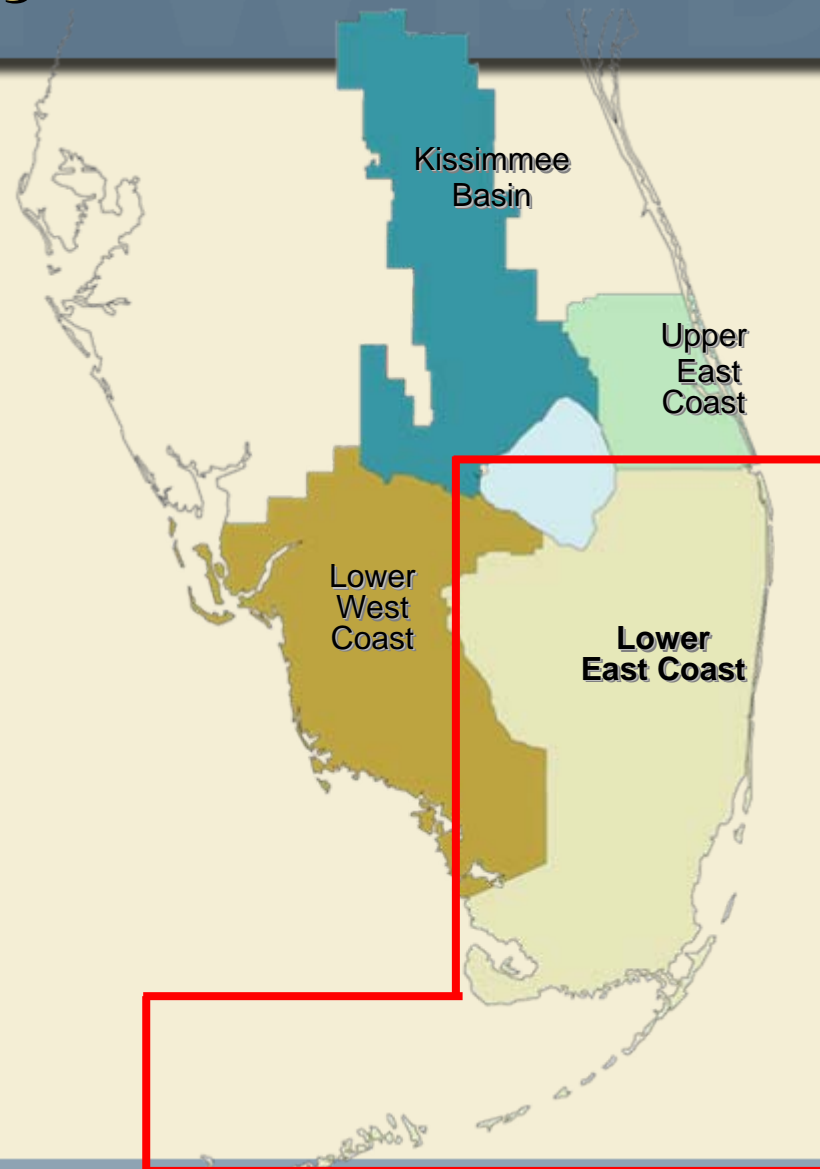


**2025**

1.3 billion  
GPD



GPD – Gallons Per Day



# Broward County Water Supply Demands

**2005**

246 million  
GPD



**2015**

311 million  
GPD



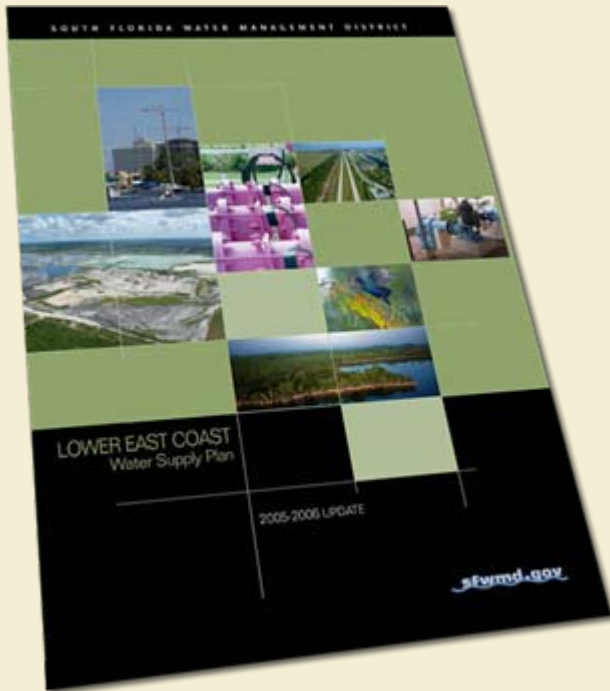
**2025**

353 million  
GPD



**106 million GPD projected shortfall by 2025**

# Water Supply Regulation



- **1997** Minimum Flows and Levels (MFLs) Requirements
- **2000** Regional Water Supply Plan
- **2000** Comprehensive Everglades Restoration Plan (CERP)
- **2001** Everglades MFL and Recovery Plan (CERP)
- **2003** Water use “B” list rule revisions
- **2004** Consumptive Use Permit-CERP Guiding Principles
- **2007** Regional Water Availability Rule = NO more water from regional system



# State Law Links Growth and Water Supply



# Meeting Future Water Needs

## Water Supply Options



- **Traditional sources**
  - Biscayne aquifer
- **Conservation**
- **Other sources**
  - Floridan aquifer & reverse osmosis
  - Seawater & reverse osmosis
  - Reclaimed water & water reuse
  - Increased Storage

# Meeting Future Water Needs

## Current Broward County Facilities



- **Floridan aquifer & reverse osmosis**
  - **Hollywood - 2 MGD**
- **Water Reuse**
  - **5% or 12 MGD of wastewater reused**
  - **Example projects:**
    - **Miramar – 2 MGD**
    - **Pompano Beach – 1.4 MGD**
    - **Hollywood – 2.9 MGD**



# Meeting Future Water Needs

## FY2008 Funded Broward County Projects

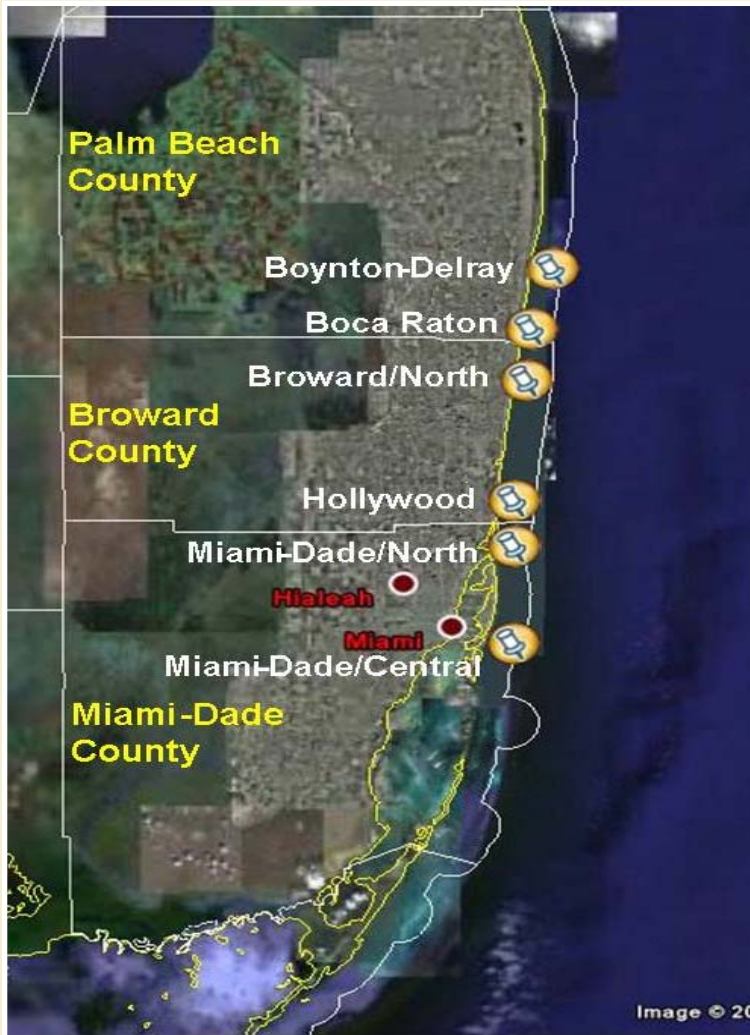


- **Floridan aquifer & reverse osmosis**
  - **Deerfield Beach – 3 MGD**
  - **Hollywood Expansion – 4 MGD**
  - **Miramar – 2 MGD**
- **Water Reuse**
  - **Pompano Beach (Reuse pipeline expansion)**



# Meeting Future Water Needs

## Capturing Ocean Outfalls



- **New legislation:**
  - Requires advanced treatment of ocean outfalls by 2018
  - Establishes new interim treatment standards
  - Requires implementation of reuse by 2025

# Meeting Future Water Needs

## Conservation



- **Most economical source of water**
- **Potentially defers or reduces need for development of new sources**
- **A comprehensive conservation program for South Florida:**
  - **Creates a year-round culture of conservation**
  - **Promotes efficient water use; eliminates waste**
  - **Utilizes partnerships with local governments to maximize effectiveness**

# Meeting Future Water Needs

## Conservation



- **Key water conservation strategies:**
  - **Goal-based conservation**
  - **Conservation rate structures**
  - **Retrofit programs**
  - **Reduced landscape irrigation**
  - **Florida-friendly landscaping**
  - **Increased education and social marketing**
  - **Lead by example**



# Meeting Future Water Needs **Next Steps**





**"When the well's dry, we know the worth of water."**  
**Benjamin Franklin**